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10/002,723	11/16/2001	Vibhor Julka	4740-029	2830
24112 7590 07/16/2007 COATS & BENNETT, PLLC 1400 Crescent Green, Suite 300			EXAMINER	
			PEREZ, JULIO R	
Cary, NC 27518			ART UNIT	PAPER NUMBER
			2617	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
	10/002,723	JULKA, VIBHOR				
Office Action Summary	Examiner	Art Unit				
	Julio R. Perez	2617				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period was a failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 01 No	Responsive to communication(s) filed on <u>01 November 2006</u> .					
2a) ☐ This action is FINAL . 2b) ☒ This	This action is FINAL . 2b)⊠ This action is non-final.					
• •	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
 4) Claim(s) 1-65 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) 1-8, 13-29, 33-46, 50-65 is/are rejected. 7) Claim(s) 9-12,30-32 and 47-49 is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. 						
Application Papers						
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 16 November 2001 is/an Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Ex	re: a) \square accepted or b) \square object drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ate				

DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1- 8, 13-29, 33-46, 50-65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lim et al. (hereinafter Lim), US Patent Number 7,035,636 in view of Einola et al. (US 20020064144).

Regarding claims 1, 25, 41, Lim discloses a wireless communication network, a session controller (i.e., location management function), and a method of mobility comprising: a packet control function (column 4, lines 35-37, a packet control function may be provided); a plurality of access network controllers connected to the packet control function for communicating with an access terminal engaged in a communication session (column 2, lines 61-67; column 4, lines 4-16, several RNCs are provided for communicating active terminals with RNCs and PDN); and wherein, in response to transfer of the access terminal from a first one of the access network controllers to a second one of the access network controllers, the session controller sends the session information stored in the session controller to the second access network controller, and to redirect service requests received by a first access network controller from a packet control function to a second access network controller (column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28; the

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management unit controls the mobility of the active terminal, i.e., 11, from RNC 1 to RNC2; further providing the information contained from the first RNC to the target RNC), but is silent on a session controller having memory for storing session information used by one or more of the access network controllers to communicatively couple the access terminal to the packet control function during the communication session, and redirecting service requests received by the first access network controller from the PCF.

Einola teaches relocation procedure of a user terminal communicating in a communication network being movable between network controllers and switching the data from one server to the other during the relocation procedure (Figure 3, #'s 100, 200, 400; Pars. 31, 32, lines 4-11, 38, 40).

It would have been obvious to one skilled in the art at the time of the invention to modify Lim, such that a session controller provides information to the access controller in response t session information requests from the access network and redirecting the service request received by the first network to the second access network, to provide continuity of communication between the two access network and accurate and efficient connectivity.

Regarding claim 2, the combination of Lim and Einola discloses, wherein the transfer is a dormant handoff (Lim, column 4, lines 60-63, transferring the terminal from one RNC to another RNC is done during a suspended or dormant state).

Regarding claims 3, 26, the combination of Lim and Einola discloses, wherein the second access network controller queries the session controller for session information

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associated with the access terminal responsive to the transfer of the access terminal from the first access network controller to the second access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claims 4, 27, the combination of Lim and Einola discloses, wherein the session information associated with the access terminal to the second access network controller responsive to receiving a query from the second access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 5, 29, the combination of Lim and Einola discloses, wherein the first access network controller removes session information for the access terminal stored in the first access network controller in response to the transfer of the access terminal from the first access network controller to the second access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 6, the combination of Lim and Einola discloses, wherein the first access network controller removes session information for the access terminal in response to a cancellation request message from the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 7, the combination of Lim and Einola discloses, wherein the storing in memory routing information indicating which of the plurality of access network

controllers is currently identified with the access terminal by the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claims 8, 33, the combination of Lim and Einola discloses, wherein the session controller updates the routing information in response to the transfer of the access terminal from the first access network controller to the second access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 13, the combination of Lim and Einola discloses, wherein the session controller updates the routing information responsive to a session cancellation message from an access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claims 14, 34, the combination of Lim and Einola discloses, wherein the session controller sends a session update message to one or more of the access network controllers if the session controller detects that the access terminal is not currently identified with any one of the plurality of access network controllers (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 15, the combination of Lim and Einola discloses, wherein the access network controllers page the access terminal in response to receipt of the session update message by the access network controllers (Lim, column 2, lines 65-67;

column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 16, the combination of Lim and Einola discloses, wherein the access network controllers send a session cancellation message to the session controller if the access terminal does not respond to the page within a predetermined time, and wherein the session controller updates the routing information responsive to the session cancellation message (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 17, the combination of Lim and Einola discloses, wherein the packet control function maintains routing information in memory indicating which access network controller is currently identified with the access terminal by the packet control function (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 18, the combination of Lim and Einola discloses, wherein the packet control function updates the routing information when the packet control function receives a connection request associated with the access terminal from one of said plurality of access network controllers (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 19, the combination of Lim and Einola discloses, wherein the packet control function sends a service request to the access network controller currently identified with the access terminal by the packet control function in response to receiving data to be delivered to the access terminal (Lim, column 2, lines 65-67;

column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 20, the combination of Lim and Einola discloses, wherein the access network controller receiving the service request from the packet control function initiates redirection of the service request received from the packet control function if the access network controller does not have session information associated with the access terminal (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 21, the combination of Lim and Einola discloses, wherein redirecting the service request comprises: sending a notification from the access network controller receiving the service request to the session controller; and sending a connection setup request from the session controller to the access network controller currently identified with the access terminal by the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 22, the combination of Lim and Einola discloses, wherein the access network controllers are operative to send a connection request to the packet control function to establish a connection with said packet control function responsive to receiving a connection setup request from the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

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Regarding claims 23, 39, 58, the combination of Lim and Einola discloses, wherein the network comprises an IXEVDO wireless communication network (Lim, column 7, lines 60-62; Figure 2).

Regarding claims 24, 40, 59, the combination of Lim and Einola discloses, wherein the session controller assigns a Universal Access Terminal Identifier to said access terminal (Lim, column 7, lines 60-62).

Regarding claim 36, the combination of Lim and Einola discloses, wherein redirecting service requests sent by the packet control function to a first access network controller comprises: receiving a service request notification from said first access network controller; and sending a connection setup request to the second access network controller, which is currently identified with the access terminal by the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 37, the combination of Lim and Einola discloses, wherein the session information comprises data connection information associated with a data connection between the access terminal and a packet control function in the wireless communication network (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 38, the combination of Lim and Einola discloses, wherein the data connection information comprises IP address information and network identifier information associated with the access terminal (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 42, the combination of Lim and Einola discloses, further comprising generating the session information request at a second access network controller responsive to the transfer of the access terminal from a first access network controller to the second access network controller, and sending the session information request from the second access network controller to the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 43, the combination of Lim and Einola discloses, further comprising sending a cancellation request from the session controller to the first access network controller to initiate removal of the session information stored in the first access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 44, the combination of Lim and Einola discloses, further comprising removing session information associated with the access terminal stored in the first access network controller in response to the cancellation request message (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 45, the combination of Lim and Einola discloses, further comprising storing routing information in the session controller indicating which of the plurality of access network controllers is currently identified with the access terminal by the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 46, the combination of Lim and Einola discloses, further comprising updating the routing information in response to a transfer of the access terminal from a first access network controller to a second access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 50, the combination of Lim and Einola discloses, further comprising sending a session cancellation message from an access network controller currently identified with the access terminal to the session controller, and updating the routing information stored in the session controller in response to the session cancellation message (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 51, the combination of Lim and Einola discloses, further comprising sending a session update message from the session controller to one or more of the access network controllers when the session controller detects that the access terminal is not currently identified with any one of the plurality of access network controllers (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28)).

Regarding claim 52, the combination of Lim and Einola discloses, further comprising paging the access terminal by the one or more access network controllers in response to the session update message (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 53, the combination of Lim and Einola discloses, further comprising sending a session cancellation message from an access network controller to the session controller if the access network controller does not receive a response from the access terminal to a paging message sent by the access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 54, the combination of Lim and Einola discloses, further comprising redirecting a service request received by a first access network controller from a packet control function to a second access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 55, the combination of Lim and Einola discloses, wherein redirecting a service request comprises: sending a service request notification from the first access network controller to the session controller; and sending a connection setup request from the session controller to the second access network controller currently, which is currently identified with the access terminal by the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 56, the combination of Lim and Einola discloses, further comprising maintaining routing information at the packet control function indicating which of the access network controllers is currently identified with the access terminal

by the packet control function (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 57, the combination of Lim and Einola discloses, further comprising updating the routing information when the packet control function receives a connection identified with the access terminal from an access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 60, Lim discloses, a method of re-establishing a data connection between a packet control function and a dormant access terminal that has moved from a first access network controller to a second access network controller, said method comprising: sending a service request from the packet control function to the first access network controller indicated by routing information stores in the packet control function as being currently identified with said access terminal controller (column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28); sending a connection setup request from said session controller to said second access network controller indicated by routing information stored in said session controller as being currently identified with said access terminal (column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28); and sending a connection request from said second access network controller to said packet control function ((column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 6, lines 21-28), but is silent

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on sending a service request notification from the first access network controller to a session controller.

Einola teaches relocation procedure of a user terminal communicating in a communication network, wherein the terminal is being moved from one network controller to the other with switching the data from one server to the other during the relocation procedure (Figure 3, #'s 100, 200, 400; Pars. 31, 32, lines 4-11, 38, 40).

It would have been obvious to one skilled in the art at the time of the invention to modify Lim, such that sending a service request notification from the first access network controller to a session controller, to provide continuity of communication between the two access networks and accurate and efficient connectivity.

Regarding claim 61, the combination of Lim and Einola discloses, wherein said packet control function updates its routing information to indicate that said second access network controller is currently identified with the access terminal by the packet control function in response to receiving the connection request from the second access network controller function (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 62, the combination of Lim and Einola discloses, further comprising storing session information associated with the dormant access terminal in the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 63, the combination of Lim and Einola discloses, further comprising sending the session information stored in the session controller to the

second access network controller responsive to the movement of the access terminal from the first access network controller to the second access network controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 64, the combination of Lim and Einola discloses, wherein the second access network controller sends a session information request to the session controller in response to the movement of the access terminal from the first access network controller to the second access network controller, and wherein sending the session information stored in the session controller to the second access network controller includes sending the session information stored in the session controller to the second access network controller responsive to receiving the session information request by the session controller (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Regarding claim 65, the combination of Lim and Einola discloses, further comprising using the session information at the second access network controller to reestablish a data connection between the access terminal and the packet control function (Lim, column 2, lines 65-67; column 3, lines 1-7; column 4, lines 20-42, 47-67; column 5, lines 1-25; column 6, lines 21-28).

Response to Arguments

3. Applicant's arguments with respect to claims 1-8, 13-24, 41-46, 50-65, have been considered but are most in view of the new ground(s) of rejection.

Allowable Subject Matter

4. Claims 9-12, 30-32, 47-49, are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

EXAMINER'S AMENDMENT

5. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. David E. Bennett on March 21, 2007.

6. The application has been amended as follows:

IN THE CLAIMS:

Claim 38: on line 1, "of claim 39" has been replaced by -- of claim 37--.

Claim 39: on line 1, "of claim 39" has been replaced by -- of claim 25 --.

Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Julio R. Perez whose telephone number is (571) 272-7846. The examiner can normally be reached on 10:30 - 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, William G. Trost can be reached on (571) 272-7872. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

> Julio R Perez Examiner Art Unit 2617

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WILLIAM TROST SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600